Avadhesh Kumar Shah

Singrauli, Madhya Pradesh, India

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Education

Vellore Institute of Technology,	**Aug 2022 - Apr 2027**
Integrated Master of Technology in Computer Science and Engineering - CGPA: 9.24	*Bhopal, Madhya Pradesh*
Govt. Excellence Higher Secondary School,	**May 2020 - May 2022**
Senior Secondary School Certificate, Class XII - Percentage: 92.6,	*Singrauli, Madhya Pradesh*
Govt. Excellence Higher Secondary School,	**Apr 2019 - Apr 2020**
High School Certificate, Class X - Percentage: 96,	*Singrauli, Madhya Pradesh*

Technical Skills

Programming Languages: C++, Python, JavaScript, SQL, HTML/CSS
Web Development: React.js, Node.js, Express.js, Django, Tailwind CSS, Bootstrap
AI/ML & Data Science: Machine Learning, NLP, NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch
Databases & Cloud: MongoDB, MySQL, AWS (EC2, S3), Cloudinary
Tools & Platforms: Git/GitHub, Postman, RESTful APIs, VS Code
Relevant Coursework: Data Structures & Algorithms (DSA), OOPs, DBMS, Operating Systems (OS)

Projects

Automated Grading System | *Python, Machine Learning (ML), Natural Language Processing (NLP)* | Link   **Jul 2024 - Oct 2024**
- Developed an AI-powered Automated Grading System using **Python** and **Machine Learning**, achieving **93% accuracy** in automated text evaluation and feedback generation.
- Implemented advanced NLP techniques, including **BERT** and **Word2Vec**, to refine semantic analysis, enabling more accurate topic modeling across 50,000+ documents.
- Engineered a dynamic **Performance & Feedback Dashboard** to visualize grading analytics and student progress.

Well-Scan | *Python, Machine Learning models, OpenCV, Django, MongoDB, Gemini API* | Link   **Dec 2023 - May 2024**
- **Built** a scalable healthcare platform utilizing **Python** and **Scikit-learn** to deploy **Random Forest** and **Decision Tree** classifiers, achieving **90% predictive accuracy** across 5+ diagnostic categories.
- Integrated a **Gemini API**-powered chatbot using **Django** and **OpenCV** to deliver **24/7** interactive medical guidance.
- Established a real-time doctor availability feature to optimize scheduling, resulting in a **25% reduction** in missed appointments.

Coding Profile

Competitive Programming (Codeforces, Leetcode & GeeksforGeeks**)**   **Jan 2023 - Present**
Solved 800+ Algorithmic and Data Structure Problems
- **Codeforces:** Max Rating: 1556 (**Specialist**) | Active contest participant. | Link
- **Leetcode:** Global Rank: 120k | Solved over 550+ DSA Problems. | Link
- **GeeksforGeeks:** University Rank: 183 | Solved over 400+ DSA Problems. | Link

Achievements

- **AlgoUniversity Graph Camp (Dec 2025):** Secured **Rank 2** out of 2000 participants (**Contest Winner**).
- **Finalist - IndiGo Aspiring Leaders Program (2025):** Achieved **Finalist status** & secured a **Final-Round Interview**.
- **Top 10 Semifinalist - GrabHack:** Ranked among the **Top 10 Teams** to advance to the Semifinals in this technical hackathon.
- **STARS Scholarship:** Awarded **100%** STARS Merit Scholarship by **VIT** Bhopal for securing the District Topper rank in Class XII.
- **INSPIRE SHE Scholarship:** Secured a ₹50,000 scholarship for ranking in the **Top 1%** of the MPBSE board Class XII merit exam.

Extracurriculars

Management Co-lead, CloudZone Club, VIT Bhopal ,   **Oct 2024 - Apr 2025**
- Spearheaded the club's technical workshop program by orchestrating **Cloud Computing Seminars** for over **200+ students**, driving a **40% increase** in club participation and engagement.

Certifications

- **Applied Machine Learning in Python:** Coursera | Link
- **Microsoft Azure for Data Engineering:** Microsoft | Link

Languages

English (Fluent), **Hindi** (Fluent)